

Notice of Allowability

Application No.

10/822,681

Examiner

Sara Addisu

Applicant(s)

HIRAYAMA ET AL.

Art Unit

3722

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/5/06.
2. ☒ The allowed claim(s) is/are 1,2 and 5-11.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Monica S. Carter
MONICA CARTER
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Allowable Subject Matter

Claims 1, 2 and 5-11 are allowed.

The closest prior art to the instant invention is JP 2002-126907. JP 2002-126907 teaches using a numerical control (NC) processor comprising a work spindle to hold a workpiece (9) thereon, the work spindle being supported for rotation on a headstock (5), a Z-axis table allowing the work spindle to move in reciprocation in a Z-axis direction, an X-axis table arranged in opposition to the work spindle and moving in reciprocation in an X-axis direction (X-axis direction being perpendicular to the Z-axis direction), a turner base (11) fastened to the X-axis table, a slider (12) allowed to move back and forth over the turner base in a Y-axis direction (Y-axis direction being parallel with the Z-axis direction), a cutting tool (15) mounted to the slider (12), and a driving means (comprising a linear-motor coil 19) to force the slider in reciprocation the Y-axis direction (2002-126907, figures 4-6). Furthermore, JP 2002-126907 teaches a pulse coder detects the position of the x-axis table and the NC of servomotor for the x-axis table is actuated, Paragraph [0006], lines 17-20 of the translation of JP 2002-126907) whereby the cutting tool generates a desired curved surface (e.g. plastic-lens process therefore toric surface, Paragraph [0022], lines 1-6 of the translation of JP 2002-126907) on a surface of the workpiece lying perpendicular to the Y-axis direction of the cutting tool.

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However, JP 2002-126907 fails to anticipate or make obvious the slider being set a its highest acceleration at all times while the rotating velocity of the work spindle is varied (i.e. JP 2002-126907 teaches the slider being controlled such that it is synchronized with rotary motion of the main shaft, translation of JP 2002-126907, paragraph 22).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sara Addisu at (571) 272-6082. The examiner can normally be reached on 8:30 am - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica Carter can be reached on (571) 272-4475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SA
9/15/06

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